

**15** Which descriptions of enzymes that use the lock-and-key hypothesis are correct?

- 1 The active site is complementary to the substrate the enzyme acts on.
- 2 Bonds that form in the enzyme–substrate complex change the shape of the active site.
- 3 Most of the amino acids in an enzyme help to maintain the specific shape of the enzyme.

**A** 1, 2 and 3      **B** 1 and 2 only      **C** 1 and 3 only      **D** 3 only